

(b) a nucleotide sequence encoding an about 200 kDa outer membrane protein of strain of *Moraxella catarrhalis* and consisting of SEQ ID Nos: 7, 9 or 11, and

(c) a nucleotide sequence encoding an about 200 kDa outer membrane protein of another strain of *Moraxella catarrhalis* which is characterized by a tract of consecutive G nucleotides which is 3 or a multiple thereof in length, an ATG start codon about 80 to 90 bp upstream of said tract and said tract being located between amino acids 25 and 35 encoded by the nucleotide sequence.

D 2
2. (Amended) The nucleic acid molecule of claim 1 wherein said another strain of *Moraxella catarrhalis* in (c) is a strain expressing an about 200 kDa protein as identified in Table 1A other than strains 4223, Q8 and LES-1.

D 3
3. (Amended) A vector for transforming a host comprising a nucleic acid molecule as claimed in claims 1 or 2.